

# Cadmium tetrafluoroborate

Cadmium tetrafluoroborate or cadmium(II) tetrafluoroborate is a chemical compound, with the formula Cd(BF<sub>4</sub>)<sub>2</sub>.<sup>[2]</sup>

## Preparation

Cadmium tetrafluoroborate is prepared from the reaction between an aqueous solution of fluoroboric acid and cadmium carbonate or cadmium oxide.

## Uses

Its primary uses are to prepare electroplating baths for high strength steels where normal cyanide baths cause problems of hydrogen embrittlement.

## References

1. 1 2 3 "NIOSH Pocket Guide to Chemical Hazards #0087". National Institute for Occupational Safety and Health (NIOSH).
2. ↑ Hazardous Substances Database

Cadmium tetrafluoroborate	
Identifiers	
CAS Number	14486-19-2 ✓
3D model (Jmol)	<a href="#">Interactive image</a>
ECHA InfoCard	100.034.975
PubChem	12886773
InChI	<chem>InChI=1S/2BF4.Cd/c2*2-1(3,4)5;/q2*-1;+2</chem> Key: NXOFSPIMFJTFSE-UHFFFAOYSA-N
SMILES	<chem>[B-](F)(F)(F)[B-](F)(F)F.[Cd+2]</chem>
Properties	
Chemical formula	Cd(BF <sub>4</sub> ) <sub>2</sub>
Molar mass	286.020 g/mol
Appearance	colorless solid crystals very hygroscopic
Odor	odorless
Density	1.60 g/cm <sup>3</sup>
Solubility in water	very soluble
Solubility	very soluble in alcohol
Hazards	
US health exposure limits (NIOSH):	
PEL (Permissible)	[1910.1027] TWA 0.005 mg/m <sup>3</sup> (as Cd) <sup>[1]</sup>
REL (Recommended)	Ca <sup>[1]</sup>
IDLH (Immediate danger)	Ca [9 mg/m <sup>3</sup> (as Cd)] <sup>[1]</sup>
Except where otherwise noted, data are given for materials in their standard state (at 25 °C [77 °F], 100 kPa).	
Infobox references	

## Cadmium compounds

**Cadmium(I)** Cd<sub>2</sub>(AlCl<sub>4</sub>)<sub>2</sub>

**Cadmium(II)** Cd(BF<sub>4</sub>)<sub>2</sub> · CdBr<sub>2</sub> · Cd(CN)<sub>2</sub> · CdCl<sub>2</sub> · CdF<sub>2</sub> · CdH<sub>2</sub> · CdI<sub>2</sub> · Cd(NO<sub>3</sub>)<sub>2</sub> · CdO · Cd(OH)<sub>2</sub> · CdS · CdSO<sub>4</sub> · CdSe · CdTe · CdWO<sub>4</sub> · Cd<sub>3</sub>As<sub>2</sub>

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